CLAIMS

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What we claim is:

- 1. A chimeric polypeptide comprising:
 - (1) a TNF neutralizer domain;
 - (2) an IL-1 receptor antagonist domain; and
 - (3) a dimerization domain,

wherein the three domains are operably linked.

- 2. The chimeric polypeptide of claim 1, wherein the TNF neutralizer domain includes a domain that binds to mammalian TNF or IL-6.
- 3. The chimeric polypeptide of claim 2, wherein the TNF neutralizer domain includes an extracellular domain of mammalian TNFR or mammalian IL-6 receptor, or its functional equivalent.
- 4. The chimeric polypeptide of claim 3, wherein the mammalian TNFR is TNFRII or TNFRI.
- 5. The chimeric polypeptide of claim 3, wherein the mammalian TNFR is human TNFRII.
- 6. The chimeric polypeptide of claim 1, wherein the IL-1 receptor antagonist domain includes IL-1ra or its functional equivalent.
- 7. The chimeric polypeptide of claim 6, wherein the IL-1ra is a glycosylated mammalian polypeptide.
- 8. The chimeric polypeptide of claim 1, wherein the dimerization domain includes a human Ig Fc fragment.

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9. The chimeric polypeptide of claim 8, wherein the human Ig Fc fragment is an IgG1 Fc fragment.

- 10. The chimeric polypeptide of claim 1, wherein the chimeric polypeptide includes, from the N-terminus to the C-terminus, a TNF neutralizer domain, a dimerization domain, and an IL-1 receptor antagonist domain; or functional equivalents thereof.
- 11. The chimeric polypeptide of claim 10, wherein the chimeric polypeptide includes an extracellular domain of human TNFRII, human IgG1 Fc, and IL-1ra; or functional equivalents thereof.
- 12. The chimeric polypeptide of claim 11, wherein the chimeric polypeptide includes SEQ ID NO:2.
- 13. A polynucleotide comprising a sequence encoding the chimeric polypeptide of claim 1.
- 14. A cell comprising a polynucleotide of claim 13.
- 15. The cell of claim 14, wherein the cell is a mammalian cell, a bacterial cell, a yeast cell, an insect cell, or a plant cell.
- 16. The cell of claim 15, wherein the cell is a CHO cell or a NSO cell or a SP/2/0 cell.
- 17. A composition comprising a chimeric polypeptide of claim 1 and a pharmaceutical acceptable carrier.
- 18. A composition comprising a polynucleotide of claim 13 and a pharmaceutical acceptable carrier.

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19. A method of treating a TNF and IL-1 dependent disorder, comprising administering to a subject in need thereof an effective amount of a composition of claim 17.

- 20. The method of claim 19, wherein the disorder is an inflammatory disorder.
- 21. The method of claim 20, wherein the inflammatory disorder is rheumatoid arthritis or psoriasis.
- 22. A method of treating a TNF and IL-1 dependent disorder, comprising administering to a subject in need thereof an effective amount of a composition of claim 18.
- 23. The method of claim 22, wherein the disorder is an inflammatory disorder.
- 24. The method of claim 23, wherein the inflammatory disorder is rheumatoid arthritis or psoriasis.
- 25. A vector comprising a polynucleotide of claim 13.
- 26. A method of producing a polypeptide, comprising culturing the cell of claim 14 in a medium under conditions permitting expression of a polypeptide encoded by the polynucleotide, and purifying the polypeptide from the cultured cell or the medium of the cell.